3.

'CLAIMS

An oral formulation for gastrointestinal drug delivery which comprises an adhesion site-controlling layer for attaching the formulation to the selected site in the digestive tract, a drug-carrying layer for containing a drug and an adhesive and a protecting layer for protecting the drug in the drug-carrying layer, wherein the drug-carrying layer exists between the protecting layer and the adhesion site-controlling layer, and the adhesion site-controlling layer may attach to the protecting layer.

2. The oral formulation for gastrointestinal drug delivery according to claim 1 wherein each of the adhesion site-controlling layer, the drug-carrying layer and the protecting layer is in the form of film, and said three layers are laminated.

The oral formulation for gastrointestinal drug

delivery according to claim 2 wherein each of the thickness of the adhesion site-controlling layer, the drug-carrying layer and the protecting layer is from 20 to 100 μ m.

4. The oral formulation for gastrointestinal drug delivery according to claim 1 wherein the protecting layer is in the hemispherical form, and the drug-carrying layer exists in the inner space of the protecting layer in said hemispherical form, and wherein the adhesion site-controlling layer covers the opening part of the protecting

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layer in said hemispherical form.

- 5. The oral formulation for gastrointestinal drug delivery according to claim 4 wherein the inside depth of the hemisphere is from 50 to 500 μ m, the inside diameter of the opening part of the hemisphere is from 20 to 800 μ m, and each of the thickness of the protecting layer and the adhesion site-controlling layer is from 20 to 100 μ m.
- 6. The oral formulation for gastrointestinal drug delivery according to claim 1 wherein the drug-carrying layer is a porous sheet substrate soaked with a drug, or a sheet or a film of a gel or a wax which contains a drug.
- 7. The oral formulation for gastrointestinal drug delivery according to claim 1 wherein the drug-carrying layer further contains one or more ingredients selected from the group consisting of absorption promoters, protease inhibitors and transporter inhibitors.
- 8. The oral formulation for gastrointestinal drug delivery according to claim 1 wherein the protecting layer is a film or a capsule made of a water-insoluble polymer or a wax.
- 9. The oral formulation for gastrointestinal drug delivery according to claim 1 wherein the adhesion site-controlling layer is a film made of an enteric polymer.
- 10. The oral formulation for gastrointestinal drug delivery according to claim 1 wherein the drug is a physiologically active protein or peptide.
- 11. The oral formulation for gastrointestinal drug delivery according to claim 1 wherein the drug is G-CSF,

interferon or indinavir.

An oral capsule formulation which is prepared by 12. filling the formulation according to any one of claims 1 to 11 in a capsule.

The oral capsule formulation according to claim 12 13. which is an enteric capsule.